

REN-01-024.ST25-final.txt
SEQUENCE LISTING

<110> MONSANTO TECHNOLOGY LLC
Ruezinsky, Diane
Bennett, Kristen
Jander, Georg

<120> Production of Increased Oil and Protein in Plants by the
Disruption of the Phenylpropanoid Pathway

<130> REN-01-024

<150> 60/427,313
<151> 2002-11-18

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<170> PatentIn version 3.1

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<210> 16
 <211> 512
 <212> DNA
 <213> Glycine max

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	caaaaatttt	tatttcaaaa	cgggtaaaaa	atcctttttt	aacaaacaaa	ttgaacattg	240
	ttattttccc	cacaagaaaa	acatgggggg	ggcaaaactat	tttgcccacc	tccaatatatt	300
	tttttacctc	agcccctcaa	gggacaaaaa	gttgtttttt	ttttcccaca	atgaaggggc	360
	taaaatggga	aattgtttgt	tttgacctaa	aaccttaaaa	agctgttttt	tgtgggaaaa	420
	agcaagggca	atccaatggg	gctggggggg	ggaccactgc	agttgggttaa	tttcacagcc	480
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<210> 17
 <211> 2191
 <212> DNA
 <213> Glycine max

<400> 17	ttcccgcccc	acgcgttcct	gtaccggctt	gcgccgacag	accgaacaga	tttttttttc	60
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<210> 18
 <211> 553
 <212> DNA
 <213> Glycine max

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<400> 18
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catagacata gcaacttctg atcacttgag tgactgagtt atatataatta ttgtagttgt 480
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ctgttaaaga tgg 553

<210> 19
<211> 550
<212> DNA
<213> Glycine max

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<222> (541)..(541)
<223> n = unknown

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<210> 20
<211> 519
<212> DNA
<213> Glycine max

<400> 20
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<210> 21
 <211> 498
 <212> DNA
 <213> Glycine max

<400> 21	cttccttcct	ctgaaacaag	aacaaaaatg	gagaattcga	ccgaagaatc	ccatctccga	60
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	gtggatgccg	tctccctctt	caacaacagc	aagaccagcg	agttctgcgc	ccccttaacc	420
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<210> 22
 <211> 492
 <212> DNA
 <213> Glycine max

<400> 22	gacacccttt	cggtaaactcc	ccacccttct	ctctccttcg	accaccctta	ccctcccacc	60
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<210> 23
 <211> 553
 <212> DNA
 <213> Glycine max

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<400> 23
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cgcatgggga gag 553

<210> 24
<211> 582
<212> DNA
<213> Glycine max

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<210> 25
<211> 378
<212> DNA
<213> Glycine max

<400> 25
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tatattattg tagttgtg 378

<210> 26
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 26
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 cactgcagct ggttaatttc acagccagca gagtacatgc agacgggatc aatcccagtg 240
 ggagaagcaa gcgtgggcaa ttcccaaata agagcctgag tatcatcacc agcagaacaa 300
 aatatgcgtg gagctatgag gagccccagc aaatgcgttc acacttccac ggtgcctctc 360

<210> 27
 <211> 476
 <212> DNA
 <213> Glycine max

<400> 27
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<210> 28
 <211> 440
 <212> DNA
 <213> Glycine max

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<210> 29

<211> 467
 <212> DNA
 <213> Brassica napus

<400> 29
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<210> 30
 <211> 469
 <212> DNA
 <213> Brassica napus

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 <221> misc_features
 <222> (208)..(302)
 <223> n = unknown

<220>
 <221> misc_feature
 <222> (208)..(302)
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<210> 31
 <211> 1531
 <212> DNA
 <213> Arabidopsis thaliana

<400> 31
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 <211> 1493
 <212> DNA
 <213> Hordeum vulgare

<400> 32	
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1427

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<210> 54
 <211> 415
 <212> DNA
 <213> *Gossypium hirsutum*

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<211> 1508

<212> DNA

<213> *Gossypium hirsutum*

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<211> 1836

<212> DNA

<213> Oryza sativa

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 <223> n = unknown

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 <212> DNA
 <213> Glycine max

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acaatacaa 669

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<211> 912
<212> DNA
<213> Glycine max

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<212> DNA

<213> Glycine max

<400> 76

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<211> 805

<212> DNA

<213> Glycine max

<400> 77

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<211> 540

<212> DNA

<213> Glycine max

<400> 78

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<211> 1310

<212> DNA

<213> Brassica napus

<400> 79

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 <212> DNA
 <213> Glycine max

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 <213> Lycopersicon esculentum

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 <212> DNA
 <213> *Lycopersicon esculentum*

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<212> DNA

<213> *Triticum aestivum*

<400> 84

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<210> 85

<211> 929

<212> DNA

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<220>

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<211> 563
<212> DNA
<213> Triticum aestivum

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<222> (13)..(18)
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 <211> 483
 <212> DNA
 <213> Triticum aestivum

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<210> 89
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 <212> DNA
 <213> Triticum aestivum

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 <211> 1885
 <212> DNA
 <213> Triticum aestivum

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<210> 91
<211> 605
<212> DNA
<213> Triticum aestivum
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cagct 605
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<210> 92
<211> 1721
<212> DNA
<213> Triticum aestivum
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<212> DNA
<213> Triticum aestivum

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<210> 95
 <211> 258
 <212> DNA
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258

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 <212> DNA
 <213> Nicotiana tabacum

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Ile Leu His Asn Met Val Pro Gly Leu Gln Leu Phe Tyr Glu Gly Lys
245 250 255

Trp Val Thr Ala Lys Cys Val Pro Asp Ser Ile Val Met His Ile Gly
260 265 270

Asp Thr Leu Glu Ile Leu Ser Asn Gly Lys Tyr Lys Ser Ile Leu His
275 280 285

Arg Gly Leu Val Asn Lys Glu Lys Val Arg Ile Ser Trp Ala Val Phe
290 295 300

Cys Glu Pro Pro Lys Asp Lys Ile Val Leu Lys Pro Leu Pro Glu Met
Page 79

305 310 315 320

Val Ser Val Glu Ser Pro Ala Lys Phe Pro Pro Arg Thr Phe Ala Gln
325 330 335

His Ile Glu His Lys Leu Phe Gly Lys Glu Gln Glu Glu Leu Val Ser
340 345 350

Glu Lys Asn Asp
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 <211> 1334
 <212> DNA
 <213> Oryza sativa

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<220>
 <223> Primer WER_Nco

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<210> 167

<211> 38
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 <213> Artificial

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 <223> Primer wer_5' #2

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38

<210> 168
 <211> 395
 <212> PRT
 <213> Arabidopsis thaliana

<400> 168

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 35 40 45

Thr Asn Ser Glu His Met Thr Asp Leu Lys Glu Lys Phe Lys Arg Met
 50 55 60

Cys Asp Lys Ser Thr Ile Arg Lys Arg His Met His Leu Thr Glu Glu
 65 70 75 80

Phe Leu Lys Glu Asn Pro His Met Cys Ala Tyr Met Ala Pro Ser Leu
 85 90 95

Asp Thr Arg Gln Asp Ile Val Val Val Glu Val Pro Lys Leu Gly Lys
 100 105 110

Glu Ala Ala Val Lys Ala Ile Lys Glu Trp Gly Gln Pro Lys Ser Lys
 115 120 125

Ile Thr His Val Val Phe Cys Thr Thr Ser Gly Val Asp Met Pro Gly
 130 135 140

Ala Asp Tyr Gln Leu Thr Lys Leu Leu Gly Leu Arg Pro Ser Val Lys
 145 150 155 160

Arg Leu Met Met Tyr Gln Gln Gly Cys Phe Ala Gly Gly Thr Val Leu
 165 170 175

Arg Ile Ala Lys Asp Leu Ala Glu Asn Asn Arg Gly Ala Arg Val Leu
 180 185 190

Val Val Cys Ser Glu Ile Thr Ala Val Thr Phe Arg Gly Pro Ser Asp
 195 200 205

Thr His Leu Asp Ser Leu Val Gly Gln Ala Leu Phe Ser Asp Gly Ala
 210 215 220

Ala Ala Leu Ile Val Gly Ser Asp Pro Asp Thr Ser Val Gly Glu Lys
 225 230 235 240

Pro Ile Phe Glu Met Val Ser Ala Ala Gln Thr Ile Leu Pro Asp Ser
 245 250 255

Asp Gly Ala Ile Asp Gly His Leu Arg Glu Val Gly Leu Thr Phe His
 260 265 270

Leu Leu Lys Asp Val Pro Gly Leu Ile Ser Lys Asn Ile Val Lys Ser
 275 280 285

Leu Asp Glu Ala Phe Lys Pro Leu Gly Ile Ser Asp Trp Asn Ser Leu
 290 295 300

Phe Trp Ile Ala His Pro Gly Gly Pro Ala Ile Leu Asp Gln Val Glu
 305 310 315 320

Ile Lys Leu Gly Leu Lys Glu Glu Lys Met Arg Ala Thr Arg His Val
 325 330 335

Leu Ser Glu Tyr Gly Asn Met Ser Ser Ala Cys Val Leu Phe Ile Leu
 340 345 350

Asp Glu Met Arg Arg Lys Ser Ala Lys Asp Gly Val Ala Thr Thr Gly
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<220>
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<223> Primer Sequence
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24